

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A digital micromirror device comprising:

a first electrode and a second electrode;

a micromirror located over said first electrode and said second electrode;

a first switching element;

a second switching element; and

[[an]] a SRAM; wherein:

an output of said first switching element is connected to said first electrode;

an output of said second switching element is connected to said second electrode;

an input of said SRAM is connected to said first electrode;

an output of said SRAM is connected to said second electrode; and

the voltages of the input and the output of said SRAM mutually differ.

Claim 2 (currently amended): A digital micromirror device comprising:

a micromirror;

a first electrode and a second electrode for changing the inclination of the micromirror;

a first switching element;

a second switching element; and

[[an]] a SRAM; wherein:

an output of said first switching element is connected to said first electrode;

an output of said second switching element is connected to said second electrode;

an input of said SRAM is connected to said first electrode;

an output of said SRAM is connected to said second electrode; and

voltages of the input and the output of said SRAM mutually differ.

Claim 3 (currently amended): A digital micromirror device comprising:

a micromirror;
a first electrode and a second electrode for changing the inclination of said micromirror;
a first switching element;
a second switching element; and

[[an]] a SRAM; wherein:

a second voltage is imparted to said second electrode by said SRAM when a first voltage is imparted to said first electrode by said first switching element;

said first voltage is imparted to said second electrode by said SRAM when said second voltage is imparted to said first electrode by said first switching element;

said first voltage is imparted to said first electrode by said SRAM when said second voltage is imparted to said second electrode by said second switching element;

a switching of said first switching element is controlled by a first signal; and

a switching of said second switching element is controlled by a second signal.

Claim 4 (currently amended): A digital micromirror device comprising:

a micromirror;
a first electrode and a second electrode for changing the inclination of said micromirror;
a first switching element for imparting a first voltage or a second voltage to said first electrode;

a second switching element for imparting said first voltage or said second voltage to said second electrode; and

[[an]] a SRAM for imparting said second voltage to one of said first electrode and said second electrode, when said first voltage is imparted to the other one of electrodes, and imparting said first voltage to one of said first electrode and said second electrode, when said second voltage is imparted to the other one of said electrodes.

Claim 5 (currently amended): A digital micromirror device comprising:

a micromirror;

a first electrode and a second electrode for changing the inclination of said micromirror;

a first switching element for imparting a first voltage or a second voltage to said first electrode;

a second switching element for imparting said first voltage or said second voltage to said second electrode; and

[[an]] a SRAM for[[:]] imparting said second voltage to one of said first electrode and said second electrode, when said first voltage is imparted to the other one of electrodes; and imparting said first voltage to one of said first electrode and said second electrode, when said second voltage is imparted to the other one of the electrodes;

wherein:

a switching of said first switching element is controlled by a first signal; and

a switching of said second switching element is controlled by a second signal.

Claim 6 (original): The digital micromirror device according to claim 2, wherein the SRAM comprises two p-channel transistors and two n-channel transistors.

Claim 7 (original): The digital micromirror device according to claim 3, wherein the SRAM comprises two p-channel transistors and two n-channel transistors.

Claim 8 (original): The digital micromirror device according to claim 4, wherein the SRAM comprises two p-channel transistors and two n-channel transistors.

Claim 9 (original): The digital micromirror device according to claim 5, wherein the SRAM comprises two p-channel transistors and two n-channel transistors.

Claim 10 (original): The digital micromirror device according to claim 2, wherein the SRAM comprises two p-channel transistors and two resistors.

Claim 11 (original): The digital micromirror device according to claim 3, wherein the SRAM comprises two p-channel transistors and two resistors.

Claim 12 (original): The digital micromirror device according to claim 4, wherein the SRAM comprises two p-channel transistors and two resistors.

Claim 13 (original): The digital micromirror device according to claim 5, wherein the SRAM comprises two p-channel transistors and two resistors.

Claim 14 (original): The digital micromirror device according to claim 2, wherein the SRAM comprises two n-channel transistors and two resistors.

Claim 15 (original): The digital micromirror device according to claim 3, wherein the SRAM comprises two n-channel transistors and two resistors.

Claim 16 (original): The digital micromirror device according to claim 4, wherein the SRAM comprises two n-channel transistors and two resistors.

Claim 17 (original): The digital micromirror device according to claim 5, wherein the SRAM comprises two n-channel transistors and two resistors.

Claim 18 (original): An electronic device having the digital micromirror device according to claim 2.

Claim 19 (original): An electronic device having the digital micromirror device according

to claim 3.

Claim 20 (original): An electronic device having the digital micromirror device according to claim 4.

Claim 21 (original): An electronic device having the digital micromirror device according to claim 5.

Claim 22 (original): An electronic device having the digital micromirror device according to claim 6.

Claim 23 (original): An electronic device having the digital micromirror device according to claim 7.

Claim 24 (original): An electronic device having the digital micromirror device according to claim 8.

Claim 25 (original): The electronic device according to claim 18, wherein the electronic device is selected from the group consisting of a projector, a printer, and a copy machine.

Claim 26 (original): The electronic device according to claim 19, wherein the electronic device is selected from the group consisting of a projector, a printer, and a copy machine.

Claim 27 (original): The electronic device according to claim 20, wherein the electronic device is selected from the group consisting of a projector, a printer, and a copy machine.

Claim 28 (original): The electronic device according to claim 21, wherein the electronic device is selected from the group consisting of a projector, a printer, and a copy machine.

Claim 29 (original): The electronic device according to claim 22, wherein the electronic device is selected from the group consisting of a projector, a printer, and a copy machine.

Claim 30 (original): The electronic device according to claim 23, wherein the electronic device is selected from the group consisting of a projector, a printer, and a copy machine.

Claim 31 (original): The electronic device according to claim 24, wherein the electronic device is selected from the group consisting of a projector, a printer, and a copy machine.

Claim 32 (currently amended): A method of driving a digital micromirror device having a plurality of pixels, each pixel including:

a micromirror;

a first electrode and a second electrode for changing the inclination of said micromirror;

and

[[an]] a SRAM; said method comprising the steps of:

preparing n display periods and j non-display periods within one frame period in each of said plurality of pixels;

impacting a second voltage to said second electrode by said SRAM in each of n display periods if a first voltage of a digital signal of bits corresponding to each of n display periods is imparted to said first electrode of each of said plurality of pixels;

impacting said first voltage to said second electrode by said SRAM in each of n display periods if said second voltage of the digital signal of bits corresponding to each of n display periods is imparted to said first electrode of each of said plurality of pixels;

impacting said first voltage to said first electrode by said SRAM in each of j non-display periods if said second voltage is imparted to said second electrode of each of said plurality of pixels;

preparing any one of said n display periods again, after all of said n display periods

appear;

wherein a ratio of the lengths of said n display periods is expressed as $2^0 : 2^1 : \dots : 2^{(n-1)}$.

Claim 33 (currently amended): A method of driving a digital micromirror device having a plurality of pixels, each pixel including:

a micromirror;

a first electrode and a second electrode for changing the inclination of said micromirror,

[[an]] a SRAM;

a first switching element; and

a second switching element; said method comprising the steps of:

preparing n display periods and j non-display periods within one frame period in each of said plurality of pixels;

imparting a second voltage to said second electrode by said SRAM in each of n display periods if a first voltage of a digital signal of bits corresponding of each of n display periods is imparted to said first electrode of each of said plurality of pixels, in accordance with said first switching element turning on;

imparting said first voltage to said second electrode by said SRAM in each of n display periods if said second voltage of the digital signal of bits corresponding to each of n display periods is imparted to said first electrode of each of said plurality of pixels, in accordance with said first switching element turning on;

imparting said first voltage to said first electrode by said SRAM in each of j non-display periods if said second voltage is imparted to said second electrode of each of said plurality of pixels, in accordance with said second switching element turning on;

preparing any one of said n display periods again, after all of said n display periods appear;

wherein a ratio of the lengths of said n display periods is expressed as $2^0 : 2^1 : \dots : 2^{(n-1)}$.

Claim 34 (currently amended): A method of driving a digital micromirror device

having a plurality of pixels, each pixel including:

a micromirror;

a first electrode and a second electrode for changing the inclination of said

micromirror; and

[[an]] a SRAM for imparting a second voltage to one of said first electrode and said second electrode, when a first voltage is imparted to the other one of electrodes, and imparting said first voltage to one of said first electrode and said second electrode, when said second voltage is imparted to the other one of the electrodes;

said method comprising the steps of:

preparing n first display periods and j second display periods within one frame period in each of said plurality of pixels;

imparting said first voltage or said second voltage of a digital signal of bits corresponding to each of n first display periods to said first electrode of each of said plurality of pixels in each of n first display periods;

imparting said first voltage or said second voltage of a digital signal of bits corresponding to each of j second display periods to said second electrode of each of said plurality of pixels in each of j second display periods;

preparing one of said n first display periods and one of said j second display periods again, after all of said n first display periods and j second display periods appear;

wherein a ratio of the lengths of said n first display periods and the lengths of said j second display periods is expressed as $2^0 : 2^1 : \dots : 2^{(n-1)}$.

Claim 35 (currently amended): A method of driving a digital micromirror device having a plurality of pixels, each pixel including:

a micromirror;

a first electrode and a second electrode for changing the inclination of the micromirror;

a first switching element;

a second switching element; and

[[an]] a SRAM for imparting a second voltage to one of said first electrode and said second electrode, when said first voltage is imparted to the other one of electrodes, imparting said first voltage to one of said first electrode and said second electrode, when said second voltage is imparted to the other one of the electrodes;

said method comprising the steps of:

preparing n first display periods and j second display periods within one frame period in each of said plurality of pixels;

imparting said first voltage or said second voltage of a digital signal of bits corresponding to each of n first display periods to said first electrode of each of said plurality of pixels in each of n first display periods, in accordance with said first switching element turning on;

imparting said first voltage or said second voltage of a digital signal of bits corresponding to each of j second display periods to said second electrode of each of said plurality of pixels in each of j second display periods, in accordance with said second switching element turning on;

preparing any one of said n first display periods and any one of said j second display periods again, after all of said n first display periods and j second display periods appear; and

wherein a ratio of the lengths of said n first display periods and the lengths of said j second display periods is expressed as $2^0 : 2^1 : \dots : 2^{(n-1)}$.

Claim 36 (original): The method of driving a digital micromirror device according to claim 32, wherein black is displayed when a second voltage is imparted to a second electrode in each of a plurality of pixels.

Claim 37 (original): The method of driving a digital micromirror device according to claim 33, wherein black is displayed when a second voltage is imparted to a second electrode in each of a plurality of pixels.

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Claim 38 (original): The method of driving a digital micromirror device according to claim 34, wherein black is displayed when a second voltage is imparted to a second electrode in each of a plurality of pixels.

Claim 39 (original): The method of driving a digital micromirror device according to claim 35, wherein black is displayed when a second voltage is imparted to a second electrode in each of a plurality of pixels.